

# **Probability**



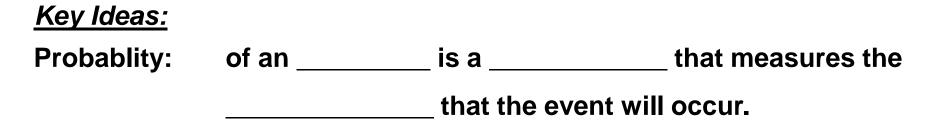
## 1. Is rolling an even number on a number cube an outcome or an event? Explain.

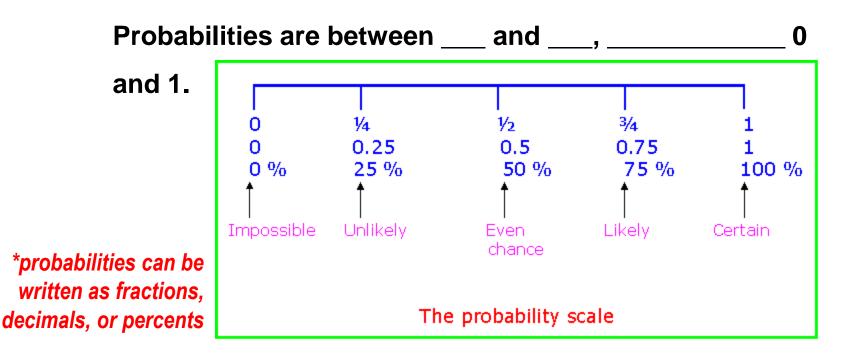


2. Describe how an outcome and a favorable outcome are different.

## **Learning Target:**

- I can understand the concept of probability and the relationship between probability and likelihood.
- I can find probabilities of events.





## **Describing the Likelihood of an Event**



There is an 80% chance of thunderstorms tomorrow. Describe the likelihood of the event.

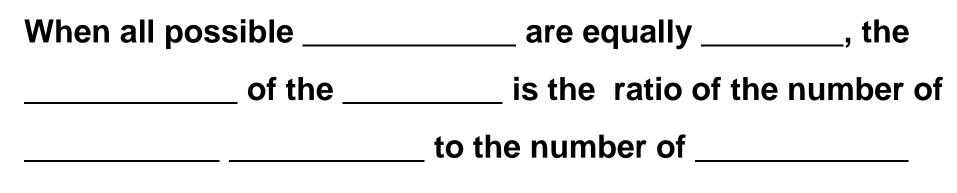
#### **Practice:**

Describe the likelihood of the event given its probability.

1) The likelihood that you land a jump on a snowboard is  $\frac{1}{2}$ .

2) There is a 100% chance that the temperature will be less than 120°F tomorrow.

## **Finding the Probablity of An Event**



the probability of an event is written as P(event).

P(event) = <u>number of favorable outcomes</u> number of possible outcomes



#### **Practice:**

- 3) What is the probability of rolling a number greater than 2?
- 4) What is the probability of rolling a 7?

## <u>Using ProbablitY</u>

The probability that you randomly draw a short straw from a group of 40 straws is  $\frac{3}{20}$ . How many are short straws?

A 4
B 6
C 15
D 34



#### **Practice:**

5) The probability that you randomly draw a short straw from a group of 75 straws is \_\_\_\_\_. How many are short straws?